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313-006-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of :  
Francis J. Maguire, Jr. :  
Serial No. 10/826,820 :  
Filed: April 16, 2004 :  
For: METHOD AND APPARATUS FOR EYE TRACKING IN A VEHICLE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant submits herewith references of which he is aware, which he believes may be material to the examination of this application and which he may have a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any document referred to herein is "prior art" for this invention unless specifically designated as such.

I hereby certify that this correspondence is being deposited today with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.

Marilyn Q. Connell  
Marilyn Q. Connell

May 26, 2004  
Date

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information as defined under 37 CFR 1.56(a) exists.

Enclosed is a Form PTO/SB/08A (sheet 1 of 3) listing cited U.S. (17) and Foreign (3) Patent Documents. Also enclosed as pages 2 and 3 of 3 are two Forms PTO/SB/08B listing fourteen Non Patent Literature Documents.

Respectfully submitted,



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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 3

**Complete if Known**

Application Number	10/826,820
Filing Date	April 16, 2004
First Named Inventor	Francis J. Maguire
Art Unit	
Examiner Name	
Attorney Docket Number	313-006.003

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3,869,694	3/1975	Merchant et al.	
		US- 4,048,653	9/1977	Spooner	
		US- 4,303,394	12/1981	Berke et al.	
		US- 4,348,186	9/1982	Harvey et al.	
		US- 4,446,480	5/1984	Breglia et al.	
		US- 4,843,568	6/1989	Krueger et al.	
		US- 4,984,179	1/1991	Waldern	
		US- 5,086,404	2/1992	Claussen	
		US- 5,130,794	7/1992	Ritchey	
		US- 5,311,879	5/1994	Yamada et al.	
		US- 5,345,944	9/1994	Hongo et al.	
		US- 5,388,990	2/1995	Beckman	
		US- 5,394,517	2/1995	Kalawsky	
		US- 5,400,069	3/1995	Braun et al.	
		US- 5,423,215	6/1995	Frankel	
		US- 5,455,654	10/1995	Suzuki	
		US- 5,615,132	3/1997	Horton et al.	
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		DE 3712287	9/1988			
		EP 0330147	8/1989			
		JP 3-292093	12/1991	with translation		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2 of 3

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Art Unit	
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Attorney Docket Number	313-006.003

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		I.E. SUTHERLAND, "A head-mounted three dimensional display," Fall Joint Computer Conference, 1968, pp. 757-763.	
		T. CAUDELL et al., "Augmented Reality: An Application of Heads-Up Display Technology to Manual Manufacturing Processes," Proc.Hawaii Int'l Conference, Jan. 1992, pp. 659-669.	
		M. DEERING, "High Resolution Virtual Reality," Computer Graphics (Proc SIGGRAPH Conf.), vol. 26, No. 2, pp. 195-202, Jul. 1992.	
		M. GLEICHER et al., "Through-the-Lens Camera Control," Computer Graphics, SIGGRAPH '92, vol. 26, No. 2, pp. 331-340.	
		P. WELLNER, "Digital Desk," Communications of the ACM, vol. 36, No. 7, Jul. 1993, pp. 87-95.	
		D. DRASCIC et al., "ARGOS: A Display System for Augmenting Reality," INTERCHI '93, Apr. 24-29, 1993.	
		S. GOTTSCHALK, "Autocalibration for Virtual Environments Tracking Hardware," Computer Graphics Proc., Annual Conf., Aug. 1993, pp. 65-72.	
		M. BAJURA et al., "Merging Virtual Objects with the Real World: Seeing Ultrasound Imagery within the Patient," Computer Graphics, SIGGRAPH '92, Jul '92, v. 26, n 2, pp. 203-10	
		E.K. EDWARDS et al., "Video See-through Design for Merging of Real and Virtual Environments," IEEE Virtual Reality Int'l Symposium, Seattle WA, Sep.18-22, '93, pp. 223-233.	
		S. FEINER et al., "Knowledge-Based Augmented Reality," Comm ACM, Jul. 1993, vol. 36, No. 7, pp. 53-62.	

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SignatureDate  
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3

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Filing Date

April 16, 2004

First Named Inventor

Francis J. Maguire

Art Unit

Examiner Name

Attorney Docket Number

313-006.003

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		P. MILGRAM et al., "Applications of Augmented Reality for Human-Robot Communications," Proc. '93: IEEE Int'l Conf. Intelligent Robots and Sys., Yokohama, Jul.1993, pp.1467-72.	
		M.W. SIEGEL, "Image Focusing In Space and Time," Report No. CMU-RI-TR-88-2, February 1988, Carnegie Mellon University, pp. 1-11.	
		H. YAMAGUCHI et al., "Proposal for A Large Visual Field Display Employing Eye Movement Tracking," Proc. SPIE, vol. 1194, Philadelphia PA, 8-10 Nov 1989, pp. 13-20.	
		E.M. HOWLETT, "High-Resolution Inserts in Wide-Angle Head-Mounted Stereoscopic Displays," 12-13 Feb 1992, SPIE Vol.1669 Stereoscopic Displays and Applications III, pp.193-203.	
		GEIGER et al, "Stereo and Eye Movement," ARPA Report, MIT, January 1988	
		Williams et al, "Eyetracking with the fiber optic helmet mounted display," Proc. 1987 Summer Computer Simulation Conf., pp 730-4	

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